

150,000 + 4% 7 years

$$4\% = 0.04$$

EXPONENTIAL
GROWTH

$$1 + 0.04 = \underline{1.04} \text{ multiplier}$$

$$150,000 \cdot 1.04^7 \approx 197,400$$

150,000 - 4% 7 years

$$4\% = 0.04$$

EXPONENTIAL DECAY

$$1 - 0.04 = \underline{0.96} \text{ multiplier}$$

$$150,000 \cdot (0.96)^7 \approx 112,700$$

40 mg

$$12\% = 0.12$$

$$\text{MULTIPLIER } 1 - 0.12 = \underline{0.88}$$

$$40 \cdot 0.88^{\textcircled{2}}$$

A CERTAIN MEDICATION IS ELIMINATED FROM THE BLOODSTREAM AT A RATE OF ABOUT 12% PER HOUR. THE MEDICATION REACHES A PEAK IN THE BLOODSTREAM OF 40 milligrams. PREDICT THE AMOUNT TO THE NEAREST TENTH OF mg AFTER 2 AND 3 HOURS.

p.359 #37-41 odd

HOME	
p.358	18,20
p.359	36,38

#41A. $775 \cdot 3^2 = 6,975$

#41B $775 \cdot 3^4 = 62,775$